## CONTENTS VOLUME 278

S.E. Koonin, D.J. Dean, K. Langanke. Shell model Monte Carlo models — No. 1, p. 1

Ş. Erkoç. Empirical many-body potential energy functions used in computer simulations of condensed matter properties — No. 2, p. 79

N. Andersen, J.T. Broad, E.E.B. Campbell, J.W. Gallagher, I.V. Hertel. Collisional alignment and orientation of atomic outer shells. II. Quasi-molecular excitation, and beyond — Nos. 3 & 4, p. 107

K.D. Lane, F.E. Paige, T. Skwarnicki, W.J. Womersley. Simulations of supercollider physics — Nos. 5 & 6, p. 291

## CONTENTS VOLUMES 271–277

W. Jaskólski. Confined many-electron systems — 271, No. 1, p. 1
P. Jain, B. Pire, J.P. Ralston. Quantum color transparency and nuclear filtering — 271, Nos. 2 & 3, p. 67
J. Mnich. Experimental tests of the Standard Model in $e^+e^-$–ff at the Z resonance — 271, No. 4, p. 181
T. Dittrich. Spectral statistics for 1-D disordered systems: a semiclassical approach — 271, Nos. 5 & 6, p. 267
J. Rau, B. Müller. From reversible quantum microdynamics to irreversible quantum transport — 272, No. 1, p. 1
V. Shalaev. Electromagnetic properties of small-particle composites — 272, Nos. 2 & 3, p. 61
J. de Boer, F. Harmsze, T. Tjin. Non-linear finite $W$-symmetries and applications in elementary systems — 272, No. 4, p. 139
G. Nägele. On the dynamics and structure of charge-stabilized suspensions — 272, Nos. 5 & 6, p. 215
K. Jansen. Domain wall fermions and chiral gauge theories — 273, No. 1, p. 1
J.P. Boon, D. Dab, R. Kapral, A. Lawniczak. Lattice gas automata for reactive systems — 273, No. 2, p. 55
F.E. Wietfeldt, E.B. Norman. The 17 keV neutrino — 273, No. 3, p. 149
T.P. Martin. Shells of atoms — 273, No. 4, p. 199
J. Alam, S. Raha, B. Sinha. Electromagnetic probes of quark gluon plasma — 273, Nos. 5 & 6, p. 243
C. Caccamo. Integral equation theory description of phase equilibria in classical fluids — 274, Nos. 1 & 2, p. 1
W. Glöckle, H. Witala, D. Hüber, K. Kamada, J. Golak. The three-nucleon continuum: achievements, challenges and applications — 274, Nos. 3 & 4, p. 107
S. Gentile, M. Pohl. Physics of tau leptons — 274, Nos. 5 & 6, p. 287
R. Sommer. Beauty physics in lattice gauge theory — 275, No. 1, p. 1
Y. Abe, S. Ayik, P.-G. Reinhard, E. Suraud. On stchastic approaches of nuclear dynamics — 275, Nos. 2 & 3, p. 49
B.I. Sturman, S.G. Odoulov, M. Yu. Goulkov. Parametric four-wave processes in photorefractive crystals — 275, No. 4, p. 149
C.-H. Lee. Kaon condensation in dense stellar matter — 275, Nos. 5 & 6, p. 255
K. Richter, D. Ullmo, R.A. Jalabert. Orbital magnetism in the ballistic regime: geometrical effects — 276, No. 1, p. 1
V. Zelevinsky, B.A. Brown, N. Frazier, M. Horoi. The nuclear shell model as a testing ground for many-body quantum chaos — 276, Nos. 2 & 3, p. 85
W.H. Zurek. Cosmological experiments in condensed matter systems — 276, No. 4, p. 177
H. Albrecht et al. (ARGUS Collaboration). Physics with ARGUS — 276, Nos. 5 & 6, p. 223
U. Stiegler. The nucleon spin structure — 277, No. 1, p. 1
A. Hosaka, H. Toki. Chiral bag model for the nucleon — 277, Nos. 2 & 3, p. 188
K.G. Chetyrkin, J.H. Kühn, A. Kwiatkowski. QCD corections to the $e^+e^-$ cross section and the $Z$ boson decay rate: concepts and results — 277, No. 4, p. 189
S. Singh. Curvature elasticity in liquid crystals — 277, Nos. 5 & 6, p. 283